DOCKET NO.: 306986.01 / MSFT-2924 **PATENT**

Application No.: 10/797,238 **Office Action Dated:** July 26, 2007

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A method for executing a file system statement in the context of

a transaction, the method comprising:

receiving the file system statement comprising a call to open an item, a call to read

from the item or to write to the item, and a call to close the item, the file system statement

being independent of any database commands employing a query language of the database

application programming interface requests;

associating the file system statement with the transaction; and

in response to receiving the file system statement that is independent of any database

application programming interface requests, starting the transaction by acquiring either a read

lock or a write lock on a data table row corresponding to the item.

2. (currently amended) The method of claim 1, comprising starting the transaction by

acquiring one of a read lock and a write lock on a data table row that includes a user defined

type corresponding to the item.

3. (original) The method of claim 1, further comprising associating a second statement

with the transaction.

4. (original) The method of claim 3, comprising associating the second statement with

the transaction, the second statement being another file system statement.

5. (original) The method of claim 3, comprising associating the second statement with

the transaction, the second statement being a transactional query language statement.

6. (currently amended) The method of claim 1, wherein starting the transaction

comprises:

determining whether starting the transaction will result in a conflict;

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if starting the transaction will result in a conflict so, then resolving the conflict

according to a conflict resolution scheme; and

if starting the transaction will not result in a conflict, then starting the

transaction.

7. The method of claim 1, wherein acquiring the read lock on the row

comprises acquiring a read committed view of the row.

8. The method of claim 1, wherein acquiring the write lock on the row

comprises acquiring a write lock that will prevent another transaction from accessing the row

while the transaction is being processed.

9. (original) The method of claim 1, wherein acquiring the write lock on the row

comprises acquiring a write lock that will prevent a non-transacted file system statement from

accessing the row while the transaction is being processed.

10. The method of claim 1, wherein acquiring the write lock on the row

comprises acquiring a write lock that will prevent another statement within the transaction

from writing to the row.

11. The method of claim 1, wherein acquiring the write lock on the row

comprises acquiring a write lock that will enable another statement within the transaction to

read from the row.

12. (original) The method of claim 1, comprising starting the transaction by acquiring

one of a read lock and a write lock on a filestream field of the row.

13. (canceled)

14. (currently amended) A method for locking and isolation of a file system statement,

the method comprising:

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receiving the file system statement comprising a call to open an item, a call to read

from the item, and a call to close the item, the file system statement being independent of any

database commands employing a query language of the database application programming

interface requests;

in response to receiving the file system statement that is independent of any database

application programming interface requests, determining if a read lock is available for a row

of a data table corresponding to the item;

if the read lock is not available for the row of the data table corresponding to the item,

then failing the open; and

if the read lock is available for the row of the data table corresponding to the item so,

then acquiring the read lock on the row.

15. (previously presented) The method of claim 14, comprising determining if the read

lock is available for a row of a data table that includes a user defined type corresponding to

the item.

16. (original) The method of claim 14, wherein acquiring the read lock on the row

comprises acquiring a read committed view of the row.

17. (previously presented) The method of claim 14, comprising acquiring the read lock

on a filestream field of the row.

18. (canceled)

19. (currently amended) A method for locking and isolation of a file system statement,

the method comprising:

receiving the file system statement comprising a call to open an item, a call to write to

the item, and a call to close the item, the file system statement being independent of any

database commands employing a query language of the database application programming

interface requests;

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in response to receiving the file system statement that is independent of any database application programming interface requests, determining if a write lock is available for a row

of a data table corresponding to the item;

if the write lock is not available for the row of the data table corresponding to the

item, then failing the open; and

if the write lock is available for the row of the data table corresponding to the item so,

then acquiring the write lock on the row.

20. (previously presented) The method of claim 19, comprising determining if the write

lock is available for a row of a data table that includes a user defined type corresponding to

the item.

21. (original) The method of claim 19, wherein acquiring the write lock on the row

comprises acquiring a write lock that will prevent another statement from accessing the row

while the statement is being processed.

22. (previously presented) The method of claim 19, comprising starting the transaction

by acquiring the write lock on a filestream field of the row.

23. (canceled)

24. (currently amended) A system for executing a file system statement, the system

comprising:

a processor;

a relational data engine comprising a data table having a row corresponding to the

item;

a storage platform built on the relational data engine, the storage platform comprising

means for receiving the file system statement, means for associating the file system statement

with the transaction, and means for starting the transaction in response to receiving the file

system statement by acquiring either a read lock or a write lock on the row, the file system

statement comprising a call to open an item, a call to read from the item or to write to the

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item, and a call to close the item, the file system statement being independent of any database commands employing a query language of the database application programming interface

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requests.

25. (original) The system of claim 24, wherein the row corresponding to the item

includes a user defined type corresponding to the item.

26. (original) The system of claim 24, wherein the storage platform further comprises

means for associating a second statement with the transaction.

27. (original) The system of claim 26, wherein the second statement is another file

system statement.

29.

28. (original) The system of claim 26, wherein the second statement is a transactional

query language statement.

(currently amended) The system of claim 24, wherein the means for starting the

transaction comprises means for performing the following steps:

determining whether starting the transaction will result in a conflict;

if starting the transaction will result in a conflict so, then resolving the conflict

according to a conflict resolution scheme; and

if starting the transaction will not result in a conflict, then starting the transaction.

30. (original) The system of claim 24, wherein the read lock provides a read committed

view of the row.

31. (original) The system of claim 24, wherein the write lock prevents another

transaction from accessing the row while the transaction is being processed.

32. (original) The system of claim 24, wherein the write lock prevents a non-transacted

file system statement from accessing the row while the transaction is being processed.

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33. (original) The system of claim 24, wherein the write lock prevents another statement within the transaction from writing to the row.

- 34. (original) The system of claim 24, wherein the write lock enables another statement within the transaction to read from the row.
- 35. (original) The system of claim 24, wherein the row comprises a filestream field.